

Tessa Clarkson, M.A.

Temple University
Department of Psychology
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Education

- PhD.
2018-Present Temple University– Philadelphia, PA
PhD. Candidate in Clinical Psychology, APA & PCSAS accredited
Advisors: Drs. Johanna Jarcho, Matthew Lerner, & Phillip Kendall
(transferred with mentor)
- 2016-2018 Stony Brook University– Stony Brook, NY
PhD. Student in Clinical Psychology, APA & PCSAS accredited
Advisors: Dr. Johanna Jarcho and Dr. Matthew Lerner
(transferred with mentor)
- M.A.
2016-2018 Stony Brook University– Stony Brook, NY
M.A. Psychology, APA & PCSAS accredited
Advisors: Dr. Johanna Jarcho and Dr. Matthew Lerner
Thesis: Early Childhood Social Reticence and Neural Response to Peers in Preadolescence Predict Social Anxiety Symptoms in Mid-Adolescence
- 2013-2014 Harvard University, Extension School- Cambridge, MA
Non-degree seeking graduate credits
- B.S.
2007-2011 Boston University, Sargent College – Boston, MA
B.S. Human Physiology

Honors & Awards

- 2020-2021 Temple University Public Policy Lab Graduate Fellowship. *Up to \$2,000.*
- 2019-2020 Commendation Award for excellence in research, clinical work, and academics. Temple University.
- 2020-2022 Ruth L. Kirschstein National Research Service Award (NRSA) Individual Predoctoral Fellowship (Parent F31). *\$69,654.*
- 2019 American Psychological Association (APA) Dissertation Research Award. *\$1,000.*
- 2019 Dr. Phillip J Bersh Memorial Student Award. *\$1,000.*
- 2018-2019 Commendation Award for excellence in research, clinical work, and academics. Temple University.
- 2018 Award for Excellence in Research (Second Year Research). *Early Childhood Social Reticence and Neural Response to Peers in Preadolescence Predict Social Anxiety Symptoms in Mid-Adolescence.* Stony Brook University, NY. *\$100.*

- 2017 *Student Travel Award*. Society for Research and Child Development (SRCD) conference in Austin, TX. \$300
- 2017 *Student Award*. International Meeting For Autism Research (IMFAR) conference in San Francisco, CA. \$500

Peer-Reviewed Publications

(N = 10 published; 6 under review; 2 in-prep; * = mentee author; ¥ = joint first-authorship)

1. **Clarkson, T.**, Carpenter, A*, Lerner, M.D., Jarcho, J.M. (In prep). Altered error-related negativity (ERN) in autism spectrum disorder may result from between- rather than within-subject variability of the timing and magnitude of neural response.
2. Mayor Torres, J.M., Kindermans, P., Alber, M., **Clarkson, T.**, Hauschild, K.M., Lerner, M.D., Riccardi, G. (In prep). Measuring Reliable Relevance/Saliency Maps on Neural Emotion Decoding: An Application in Individuals with Autism.
3. **Clarkson, T.**, Lerner, M.D. (under review). The past, present, and future of electrophysiological research in autism spectrum disorder. *Journal of Autism and Developmental Disorders*.
4. **Clarkson, T.**, Karvay, Y*, Quarmley, M., Jarcho, J.M. (under review). Sex differences in neural mechanisms of social and non-social threat monitoring: a multimodal approach. *Developmental Cognitive Neuroscience*.
5. Feldman, J. ¥, Quarmley, M. ¥, Grossman, H., **Clarkson, T.**, Moyer, A., Jarcho, J.M. (under review). Is Aggression Contagious? A Meta-Analysis Testing Effects of Social Rejection on Aggressive and Prosocial Behavior. *Perspectives on Psychological Science*.
6. Chen, H.B.*, Gardner, E.S., **Clarkson, T.**, Quarmley, M., Eaton, N.R., Wiggins, J.L., Leibenluft, E., Jarcho, J.M. (under review) Bullying Perpetration and Victimization in Youth: Associations with Irritability and Anxiety. *Journal of Clinical Child and Adolescent Psychology*.
7. Faja, S, **Clarkson, T.**, Gilbert, R., Vaidyanathan, A.*, Greco, G.M., Rueda, R., Combata, L.M., Sideridis, G., Driscoll, K. (revise-resubmit). A preliminary randomized, controlled trial of executive function training for children with autism spectrum disorder. *Autism*.
8. **Clarkson, T.** ¥, Mayor Torres, J.M. ¥, Hauschild, K.M., Luhmann, C.C., Lerner, M.D., Riccardi, G. (under review). Facial emotions are accurately encoded in the neural signal of those with autism: A deep learning approach (¥:joint first-authorship). *Biological Psychiatry*.
9. Cremone, A., Vaidyanathan, A.*, Hyatt, D., Gilbert, R., **Clarkson, T.**, Faja, S. (2019). Test-Retest Reliability of the N2 Event-Related Potential in School-Aged Children with Autism Spectrum Disorder (ASD). *Clinical Neurophysiology*. <https://doi.org/10.1016/j.clinph.2019.09.024>
10. **Clarkson, T.**, Kang, E., Capriola-Hall, N., Lerner, M.D., Jarcho, J.M., Prinstein, M.J. (2019). A Meta-Analysis of the RDoC Social Processing Domain Across Units of Analysis. *Journal of Clinical Child and Adolescent Psychology*. <https://doi.org/10.1080/15374416.2019.1678167>

11. Quarmley, M., Nelson, B.D., **Clarkson, T.**, White, L. K., Jarcho, J.M. (2019). I Knew You Weren't Going to Like Me! Anxiety and Depression are Associated with Neural Response to Accurately Predicting Rejection. *Frontiers in Behavioral Neuroscience*, 13(October), 1–11. <https://doi.org/10.3389/fnbeh.2019.00219>
12. Kang, E. [¶], **Clarkson, T.** [¶], Keifer, C.M., Rosen, T.E., Lerner, M.D. [^] (2019) Discrete electrophysiological predictors of anxiety and anxiety-related treatment response in youth with autism spectrum disorder. ([¶]:joint first-authorship). *Biological Psychology*. <https://doi.org/10.1016/j.biopsycho.2019.05.010>
13. **Clarkson, T.**, Eaton, N. R., Nelson, E.E., Fox, N.A., Leibenluft, E., Pine, D.S., Heckelman, A., Sequeira, S.L., Jarcho, J.M. (2019). Early Childhood Social Reticence and Neural Response to Peers in Preadolescence Predict Social Anxiety Symptoms in Mid-Adolescence. *Depression and Anxiety*. <https://doi.org/10.1002/da.22910>
14. Mayor Torres, J.M., **Clarkson, T.**, Stepanov, E.A., Luhmann, C.C., Lerner, M.D., Riccardi, G. (2018). Enhanced Error Decoding from Error-Related Potentials Using Convolutional Neural Networks. In *Engineering in Medicine and Biology Society (EMBC)*, 2018 40th Annual International Conference of the IEEE (pp. TBD). Honolulu, HI, July 17 - 21.
15. Libsack, E., **Clarkson, T.**, & Lerner, M.D. (2018). Unique perspectives: harnessing multimodal assessment to understand how children with autism decode the social world. *Behavioral Health News*, 6(1), 35.
16. **Clarkson, T.** LeBlanc, J., Degregorio, G., Vogel-Farley, V., Barnes, K., Kaufmann, W.E., Nelson, C.A. (2017). Adapting the Mullen Scales of Early Learning for a Standardized Measure of Cognition in Children with Rett Syndrome. *American Journal on Intellectual and Developmental Disabilities*. Doi 10.1352/1934-9556-55.6
17. Faja, S., **Clarkson, T.**, & Webb, S. J. (2016). Neural and behavioral suppression of interfering flankers by children with and without autism spectrum disorder. *Neuropsychologia*. <https://doi.org/10.1016/j.neuropsychologia.2016.10.017>
18. O'Leary, H. M., Marschik, P.B., Khwaja, O.S, Ho, E., Barnes, K.V., **Clarkson, T.**, Bruck, N. M., Kaufmann, W.E. (2015) Detecting autonomic response to pain in Rett syndrome. *Developmental Neurorehabilitation*, Early Online: 1–7. <http://www.ncbi.nlm.nih.gov/pubmed/26457613>

Other Scientific Publications

1. Faja, S., Hannibal, R., Teare, C., & **Clarkson, T.** (2015). GAMES project metacognition and behavioral regulation coaching manual for treating individuals with autism spectrum disorder and executive functioning deficits. (Unpublished Treatment Manual). Boston, MA.

Conference Symposia

(N-3)

Chair

1. **Clarkson, T.** Kang, E., Keifer, C., Rosen, T., Lerner, M.D, Gilbert, R., Vaidyanathan, A.*, Hyatt, D. **Clarkson, T.**, Greco, G., Carroll, D., Faja, S., Key, A., Corbett, B. A., Jones, D., Schiltz, H. K., McVey, A. J., Haendel, A. D., Barrington, A., Dolan, B., Willar, K., Pleiss, S., Carson, A., Mata-Greve, F., Caiozzo, C. and Van Hecke, A. V. (May, 2018) *Translational Electrophysiological Predictors of Individualized Treatment Response in School-Age and Adolescent Individuals with ASD*. **Clarkson, T.**

(Chair) Jeste, S. (Discussant). Symposium to be presented at the *International Society for Autism Research*. Rotterdam, Netherlands.

Presentations

1. Kang, E., Keifer, C. M., **Clarkson, T.**, & Lerner, M. D. (2019, October). Electrophysiological Changes Following a Blinded RCT of a Social Competence Intervention for Youth with ASD. In S. Faja (Chair). *EEG Biomarkers of Treatment Response in Developmental Disorders*. Symposium accepted at the 66th Annual Meeting of American Academy of Child & Adolescent Psychiatry, Chicago, IL.
2. **Clarkson, T.**, Kang, E., Keifer, C., Rosen, T., Lerner, M.D, Gilbert, R., Vaidyanathan, A.*, Hyatt, D. **Clarkson, T.**, Greco, G., Carroll, D., Faja, S., Key, A., Corbett, B. A., Jones, D., Schiltz, H. K., McVey, A. J., Haendel, A. D., Barrington, A., Dolan, B., Willar, K., Pleiss, S., Carson, A., Mata-Greve, F., Caiozzo, C. and Van Hecke, A. V. (May, 2018) *Translational Electrophysiological Predictors of Individualized Treatment Response in School-Age and Adolescent Individuals with ASD*. **Clarkson, T. (Chair)** Jeste, S. (Discussant). Symposium to be presented at the *International Society for Autism Research*. Rotterdam, Netherlands.
3. Jarcho, J., Smith, A., Rappaport, B., **Clarkson, T.**, Masson, M., Liebenluft, E., Pine, D., Nelson, E., Guyer, A., Caouette, J., Forbes, E., Hipwell, A., Keenan, K., Lerner, M.D., Kang, E., Rosen, T., Keifer, C., Weber, R. (April, 2017). *Neural Correlates of Peer Relations in Atypical Youth Populations*. M.D. Lerner & J.M. Jarcho (Chairs). Symposium at the *Society for Research in Child Development Biennial Meeting*. Austin, TX.

Conference Presentations

(N=4, * = student author; ¥ = joint first-authorship)

1. Torres, J.M.M., **Clarkson, T.**, Luhmann, C., Riccardi, G., Lerner, M.D. (2019, May). *Distinct but Effective Neural Networks for Facial Emotion Recognition in Individuals with Autism: A Deep Learning Approach*. Talk presented at the *International Society for Autism Research*. Montreal, Canada.
2. **Clarkson, T.**, Karvay, Y., Quarmley, M., Chen, H*., Jarcho, J.M. (2018, April). *Gender Differences in Neural Mechanism of Social Anxiety in Youth*. Talk presented at the Social and Affective Neuroscience Symposium at Adelphi University, Brooklyn, NY.
3. Quarmley, M., **Clarkson, T.**, Karvay, Y., Chen, H*., Nelson, B., Jarcho, J.M. (2018, April). *Neural mechanisms during anticipation of social evaluation predict activation to unpredictable peer feedback*. Talk presented at the Social and Affective Neuroscience Symposium at Adelphi University, Brooklyn, NY.
4. **Clarkson, T.**, Smith, A., Rappaport, B., Leibenluft, E., Pine, D., Nelson, E., Jarcho, J.M. (2016, September). *Dysregulated Neural Response During the Anticipation and Receipt of Peer Evaluation In Adolescents with Social Anxiety Disorder*. Talk presented at the Social and Affective Neuroscience Symposium at New York University, NY.

Conference Posters

(N=38, * = mentee author; ¥ = joint first-authorship)

1. Arora, A.*, **Clarkson, T.**, Yang, Y., Jarcho, J.M. (2020, December). *An Investigation of the Underlying Neural Mechanisms of Social Anxiety and Intolerance of Uncertainty*. Poster to be submitted to the *Social & Affective Neuroscience Society (SANS) Conference*.

2. **Clarkson, T.**, Quarmley, M., Karvay, Y.* , Jarcho, J.M. (2020, May). *Converging neural mechanisms of social and non-social threat monitoring: a multimodal approach*. Poster to be presented at the Flux Congress Annual Meeting, Virtual Conference.
3. **Clarkson, T.**, Quarmley, M., Karvay, Y.* , Jarcho, J.M. (2020, May). *Sex differences in neural mechanisms of social and non-social threat monitoring: a multimodal approach*. Poster to be presented at the Society of Biological Psychiatry's 75th Annual Meeting, New York, NY.
4. Quarmley, M., Yang, Z., Shahrukh., A., **Clarkson, T.**, Samaras, D., Zelinsky, G., Jarcho, J.M. (2020, May). *Nonverbal Behavioral Predicts Social Rejection Elicited Aggression in Late Adolescents*. Poster to be presented at the Society of Biological Psychiatry's 75th Annual Meeting, New York, NY.
5. **Clarkson, T.**, Carpenter, A*, Casini, S.*, Arora, A.* , Frempong, B.* , Lerner., M.D., Jarcho, J.M. (2020, May). *Altered error-related negativity (ERN) in ASD may result from between- rather than within-subject variability of the timing and magnitude of neural response*. Poster to be presented at *International Society for Autism Research* Seattle, WA.
6. Karvay, Y.* , Ore, R., Quarmley, M., **Clarkson, T.**, Hymowitz, G., Jarcho, J.M. (2019, Nov). *Weight Related Abuse Moderates Relations between BMI and Aggression Toward Unpredictable Peers*. Poster presented at The Obesity Society for presentation at Obesity Week, Las Vegas, NV.
7. **Clarkson, T.**, Quarmley, M., Nelson, B., Jarcho, J.M. (2019, Aug). *Differential Mechanisms Supporting Social-vs-Monetary Reward Processing in Adolescent Anxiety and Depression*. Poster presented at the Flux Congress Annual Meeting, New York, NY.
8. **Clarkson, T.**, Keifer, C.M., Lerner, M.D., Nelson, B., Jarcho. J.M. (2019, May). *ASD symptoms are associated with reduced LPP as youth learn about inconsistent peers during social interactions*. Poster presented at the *International Society for Autism Research*. Montreal, Canada.
9. **Clarkson, T.**, Keifer, C.M., Lerner, M.D., Nelson, B., Jarcho. J.M. (2019, May). *Youth with ASD Symptoms Have Reduced LPP as Learn about Unpredictable Peers during Social Interactions*. Poster presented at the Society of Biological Psychiatry's 74th Annual Meeting, Chicago, IL.
10. Quarmley, M., **Clarkson, T.**, Rainville, B., Chen, H.* , Jarcho. J.M. (2018, May). *Irritability Influences Relations between Social Functioning Deficits and Neural Response to Unpredictable Social Evaluation*. Poster presented at the Society of Biological Psychiatry's 73rd Annual Meeting, New York, NY.
11. Karvay, Y.* , **Clarkson, T.**, Hymowitz, G., Jarcho, J.M. (2018, November). *Anxiety Moderates Relations Between Family Income and Body Mass Index (BMI) in Adolescents*. Poster presented at The Obesity Society for presentation at Obesity Week, Nashville, TN.
12. Karvay, Y.* , **Clarkson, T.**, Quarmley, M., Jarcho, J.M. (2018, May,). *Body Mass Index (BMI) and Increased Neural Sensitivity to Anticipated Peer Rejection Predict Depression in Female Adolescents*. Poster presented at the Society of Biological Psychiatry's 73rd Annual Meeting, New York, NY.
13. Chen, H.* , Gardner, E., **Clarkson, T.**, Quarmley, M., Eaton, N.R., Pine, D.S., Leibenluft, E., Jarcho, J.M. (2018, May). *Concurrent Irritability and Anxiety Predict Perpetration and Victimization of Bullying*. Poster presented at to the Association for Psychological Science, San Francisco, CA
14. Mayor, J. M., Libsack, E. J., **Clarkson, T.**, Keifer, C. M., Riccardi, G., Lerner, M. D. (2018, May). *EEG-based Single trial Classification Emotion Recognition: A Comparative Analysis in Individuals with*

and without Autism Spectrum Disorder. Poster presented at the *International Society for Autism Research*. Rotterdam, Netherlands.

15. Libsack, E. J., Keifer, C. M., **Clarkson, T.**, Mayor, J. M., Lerner, M. D. (2018, May). Adolescents with ASD Show Electrophysiological (EEG) Responses in a Novel Theory of Mind Reasoning Task: An ERP Study of the LPC and LSW. Poster presented at the *International Society for Autism Research*. Rotterdam, Netherlands.
16. Halpern, C. *, **Clarkson, T.**, and Lerner, M. D. (May, 2018). Autism Symptom Severity Predicts Accuracy of Facial Emotion Recognition Under Conditions of Low Theta-Power Early in Visual Processing. Poster presented at the *International Society for Autism Research*. Rotterdam, Netherlands. May 9-12.
17. **Clarkson, T.**, Eaton, N. R., Nelson, E.E., Fox, N.A., Leibenluft, E., Pine, D.S., Heckelman, A., Sequeira, S.L., Jarcho. J.M. (2018, May) Ecologically Valid Neural and Behavioral Predictors of the Continuation of Social Anxiety Symptoms In Youths. Poster presented at the Social & Affective Neuroscience Society's 11th Annual Meeting, Brooklyn, NY.
18. Quarmley, M., **Clarkson, T.**, Rainville, B., Chen, H. *, Jarcho. J.M. (2018, May). Irritability Influences Relations between Social Functioning Deficits and Neural Response to Unpredictable Social Evaluation. Poster presented at the Society of Biological Psychiatry's 73rd Annual Meeting, New York, NY.
19. Jarcho, J.M., **Clarkson, T.** Chen, H.* Quarmley, M., Hajcak, G. (2017, December). Translating arrows to anxiety: An ERN-based biomarker of risk for pediatric anxiety predicts altered brain function measured by fMRI during ecologically valid social interactions. Poster presented at American College of Neuropsychopharmacology. Palm Springs, CA.
20. Chen, H. *, Gardner, E., **Clarkson, T.** Eaton, N.R. Pine, D.S., Leibenluft, E., Jarcho J.M. (2017, March). Irritability and Anxiety: Risk-Factors for Perpetration and Being Targeted for Bullying. Poster presented at *the Society for Personality and Social Psychology*. Atlanta, GA.
21. Gregory, JC, Baczewski, LM, **Clarkson, T.**, Nelson, CA. (2017, October). Determining the Validity of the Eye-Tracking Mullen Scales of Early Learning (MSEL) in Age-Matched Control Participants. Poster presented at: *Neurodevelopmental Disorders Symposium*. Boston, MA
22. **Clarkson, T.**, Chen, H. *, Quarmley, M. & Jarcho, J.M. (2017, September). Ecologically valid neural predictors of social anxiety disorder in youths. Poster presented at *Flux*. Portland, OR.
23. **Clarkson, T.**, Kang, E., Lerner, M.D., Jarcho, J.M., & Prinstien, M.J. (2017, June) A Meta-analysis of the RDoC Social Processing Domain across Units of Analysis. Poster presented at the *Journal of Clinical Child and Adolescent Psychology (JCCAP) Future Directions Forum*. College Park, MD.
24. **Clarkson, T.**, Smith, A., Rappaport, B., Lerner, M.D., Leibenluft, E., Pine, D., Nelson, E., Jarcho, J. (2017, April) Subclinical impairments in social competence differentially predict brain activation and anxiety symptoms in healthy youths. Poster presented at the *Society for Research in Child Development Biennial Meeting*. Austin, TX.
25. **Clarkson, T.**, Rosen, T., Keifer, C.M., Lerner, M.D. (2017, May). ERN As a Predictor of Treatment Response to Social Skills Interventions in ASD. Poster presented at the *International Meeting for Autism Research*, San Francisco, CA.

26. Gerber, A.H., Kang, E., Mulhall, A., **Clarkson, T.**, Lerner, M.D. (2017, May). Performance-Based Social Skills Training Improves Treatment Outcomes for Youth with Comorbid ADHD or Anxiety. Poster presented at the *International Meeting for Autism Research*, San Francisco, CA.
27. Kang, E., Keifer, C.M, Rosen, T.E., **Clarkson, T.**, & Lerner, M.D. (2017, May). Hemispheric Asymmetry as an Electrophysiological Marker of Anxiety in Youth with Autism Spectrum Disorder. Poster presented at the *International Meeting for Autism Research*, San Francisco, CA.
28. Buirkle, J., **Clarkson, T.**, Vaidyanathan, A.*, Faja, S. (2017, May). Neural and Behavioral Responses in an Executive Functioning Task Predict Social Communication Symptoms in Children with Autism Spectrum Disorder. Poster presented at the *International Meeting for Autism Research*, San Francisco, CA.
29. Vaidyanathan, A.*, Faja, S. **Clarkson, T.** (2017, May). Retest Reliability of the N2 Event-Related Potential Component and Conflict Processing Behavioral Task in Children with High Functioning ASD. Poster presented at the *International Meeting for Autism Research*, San Francisco, CA.
30. Zhou, A.M.* , **Clarkson, T.**, Levin, A.R., Faja, S. (2017, May). Resting-State Theta Oscillations Predict Executive Functioning Deficits in Children with Autism Spectrum Disorder. Poster presented at the *International Meeting for Autism Research*, San Francisco, CA.
31. Keifer, C.M., **Clarkson, T.**, Kang, E., Stoerback, A., Lerner, M.D. (2017, May). Differences in the Late Positive Potential ERP As a Function of Valence Versus Intensity in Adults with and without ASD. Poster presented at the *International Meeting for Autism Research*, San Francisco, CA.
32. **Clarkson, T.** Bhandarkar, A.* , & Faja, S. (2016, May). Phase-Locked Frequency Contributions to Executive Functioning in Children with and without ASD. Poster presented at the *International Meeting for Autism Research*, Baltimore, MD.
33. Buirkle, J. M., Greco, G., **Clarkson, T.** & Faja S. (2016, May). Severity Scores on the Autism Diagnostic Observation Schedule 2 Relate to Inhibitory Control in Children with Autism Spectrum Disorders. Poster presented at the *International Meeting for Autism Research*, Baltimore, MD.
34. Faja, S., Greco, G., **Clarkson, T.** (2016, May). Examining the Executive Function Profile of Children with Autism, Autism Plus Significant Symptoms of Attention Deficit Disorder, and Typical Development. Poster presented at the *International Meeting for Autism Research*, Baltimore, MD.
35. **Clarkson, T.**, LeBlanc, J., Degregorio, G., Vogel-Farley, V., Barnes, K., Kaufmann, W.E., Nelson, C.A. (2015, October). Adapting the Mullen Scales of Early Learning in Rett Syndrome. Poster presented at Translational Neuroscience Conference, Boston, MA.
36. Faja, S., **Clarkson, T.** (2015, May). Brain and Behavioral Responses to a Flanker Task Differ for Children with Autism Spectrum Disorders. Poster presented at the *International Meeting for Autism Research*, Salt Lake City, UT.
37. Faja, S. **Clarkson, T.** (2015, March). Different Brain and Behavioral Responses to a Flanker Task by Children with and without Autism Spectrum Disorders. Poster presented at Society for Research in Child Development, Philadelphia, PA.
38. Faja, S., **Clarkson, T.** (2014, October). A Battery for testing executive functioning intervention in children with autism spectrum disorder. Poster presented at Translational Neuroscience Conference, Boston, M

Review Experience

Ad hoc Reviewer

Brain and Behavior (since 2020)

International Journal of Psychophysiology (since 2019)

Plus One (since 2019)

Autism (since 2018)

Social Cognitive and Affective Neuroscience (since 2017).

American Journal of Intellectual and Developmental Disabilities (since 2016).

Professional Memberships

Society for Biological Psychiatry (2019-present)

Flux Society (2017-present)

Association for Psychological Association (2017-present)

Social and Affective Neuroscience Society (2016-present)

Association for Psychological Science (2016-present)

Society for a Science of Clinical Psychology (2015-2019)

International Neuropsychology Society (2015-2016)

Society for Research and Child Development (2014-2018)

International Society for Autism Research (2014-present)

Press

- 2018 *I in 59*. New York based radio interview on paper entitled: *Unique perspectives: harnessing multimodal assessment to understand how children with autism decode the social world*. October 16th, 2018.
- 2018 *INSAR Video Release*. International Meeting For Autism Research (INSAR) Oral Symposium Presentation. *Discrete electrophysiological predictors of anxiety and anxiety-related treatment response in youth with autism spectrum disorder*.
<https://insar.confex.com/insar/2018/videogateway.cgi/id/935?recordingid=935>
- 2018 *Spectrum News*. Featured Article on International Meeting For Autism Research (INSAR) conference symposium entitled: *Translational Electrophysiological Predictors of Individualized Treatment Response in School-Age and Adolescent Individuals with ASD*.

Research Experience

Social Developmental Neuroscience Lab: Stony Brook University & Temple University

Graduate Student (Mentor: Johann Jarcho, Ph.D.)

August 2016-present

- ◆ Conduct functional magnetic resonance imaging (fMRI) sessions and process fMRI data with healthy and clinical (ages youth-aging adults).
- ◆ Code experiments, data extraction and analysis scripts, and study databases.
- ◆ Supervise a team of undergraduate students in data collection and processing including: electroencephalography (EEG)/event-related potential (ERP) and fMRI data.
- ◆ Lead and design EEG and fMRI-based studies.
- ◆ Paradigm/task design and development.

- ◆ Conduct diagnostic (Anxiety and Related Disorders Interview Schedule; ADIS & Autism Diagnostic Observation Schedule; ADOS) for research studies.
- ◆ Generate scripts and teach a variety of statistical analyses techniques to graduate and undergraduate students and staff.
- ◆ Mentor undergraduate students in conducting and writing honors projects and grant fellowships.

Child Adolescent and Anxiety Disorder Clinic: Temple University

Graduate Student (Mentor: Phil Kendall, Ph.D., ABPP)

August 2018-present

- ◆ Conduct diagnostic (ADIS) assessments before and after treatment and generate clinical reports.
- ◆ Therapist for coping cat and cat project interventions for youth 8-18 with anxiety disorders.
- ◆ Electronic database creation and management.
- ◆ Administer Autism Spectrum Disorder assessments using the ADOS-2 for treatment evaluations and referrals.

Social Competence & Treatment Lab: Stony Brook University

Graduate Student (Mentor: Matthew D. Lerner, Ph.D.)

August 2016-present

- ◆ Develop novel EEG analyses pipelines, process and analyze EEG data.
- ◆ Teach EEG/ERP theory and analyses.
- ◆ Conducted ADOS assessments for research studies.

Laboratories of Cognitive Neuroscience: Boston Children's Hospital & Harvard Medical School

Research Coordinator (Mentor: Susan Faja, Ph.D.)

July 2014-July 2016

- ◆ Set up and maintained EEG/ERP lab, developed novel EEG-ERP data analysis techniques, processed and analyzed all EEG/ERP and behavioral data for the ongoing study and previous pilot study. Programmed EPRIME experiments, coded and designed study database.
- ◆ Responsible for all administrative duties of the lab which included, writing the Manual of Operations (MOO), managing the IRB, preparing grant applications, managing and training staff and undergraduate and graduate students, and budgets.
- ◆ Conducted EEG/ERP sessions and cognitive and behavioral assessments with school-aged children with high functioning autism spectrum disorders (ASD) and wrote preliminary clinical feedback reports.
- ◆ Developed and administered a novel integrated behavioral support training program, which uses computer games to help improve executive functioning and social skills in children with ASD.

Laboratories of Cognitive Neuroscience: Boston Children's Hospital & Harvard Medical School

Research Assistant II (Mentor: Charles A. Nelson, Ph.D.)

March 2012-July 2014

- ◆ Worked on several studies of high-risk clinical populations including: TSC, Rett Syndrome, 16p, ASD, infants with older siblings on the spectrum collecting EEG, fNIRS, and eye-tracking data as well as administered cognitive and behavioral measures. Processed and analyzed EEG data for event-related potentials (ERP) across multiple studies and tasks.
- ◆ Coordinated and lead team of researchers to collect EEG/ERP data at two 16P family conferences.
- ◆ Conducted trainings on cognitive, developmental, and behavioral assessments, EEG/ERP, fNIRS, eye-tracking, data processing, data analysis, database coding, scheduling and recruitment, and consenting.

- ♦ Adapted 2 versions of a cognitive assessment for girls with Rett syndrome using novel methods and eye-tracking technology to better assess cognition without relying on language and motor abilities (see publications).

Rett Syndrome Research: Neurology, Boston Children's Hospital & Harvard Medical School

Research Data Coordinator (Mentors: Omar Khawaja, M.D., Ph.D, Walter Kaufmann, M.D.)

September 2011-June 2012

- ♦ Collected heart rate, respiration, and electro-dermal activity on girls with Rett syndrome while coding for artifact (movement), respiratory events, seizure activity, and parent-child interactions.
- ♦ Conducted screening visits to check for eligibility, administered behavioral questionnaires through parent interview, and organized, scheduled, and supervised clinical trial visits.
- ♦ Authored Manual of Operations (MOO) and Data Safety Management Board (DSMB) reports, created Regulatory Binders, and designed Clinical Research Forms (CRFs) for the clinical drug trials. Documented and reported all adverse events and protocol deviations to IRB and FDA.

Clinical Experience

Temple University, Child and Adolescent Anxiety Disorders Clinic (CAADC)

Staff Therapist

September 2018- present

Supervisors: Phil Kendall, Ph.D., Elizabeth Gosh, Ph.D.

- ♦ Provide evidence-based Coping Cat and Cat Project individual therapy to children and adolescents with primary anxiety disorders and OCD.
- ♦ Administer Anxiety and Related Disorders Interview Schedule (ADIS) diagnostic assessments and prepare reports.
- ♦ Provide continuing treatment for child clients beyond coping cat (including but not limited to CBT for psychosis, DBT, eating disorder treatment, parent management training, and family therapy).
- ♦ Administer Autism Spectrum Disorder assessments using the ADOS-2.
- ♦ Conduct trainings for treatment for and assessment of comorbid anxiety disorders and Autism Spectrum Disorder.

Temple University, Psychological Services Center

Staff Therapist

September 2018- present

Supervisors: Jay S. Efran, Ph.D., Jean Wright, Psy.D., Rob Fauber, Ph.D., Richard Heimberg, Ph.D.

- ♦ Provide evidence-based individual therapy to adults and children with a diverse range of clinical presentations including: OCD, Schizophrenia spectrum disorders, ASD, ADHD, PTSD, anxiety disorders, depressive disorders, bipolar I and II, and eating disorders.
- ♦ Administer full battery assessments and school assessments including cognitive, psychological, neuropsychological, and psychoeducational evaluations.
- ♦ Administer Autism Spectrum Disorder assessments using the ADOS-2.

Stony Brook University, Krasner Psychological Center

Staff Therapist

September 2017- 2018

Supervisors: Kristin Bernard, Ph.D.; Nicholas Eaton, Ph.D.; Dina Vivian, Ph.D.

- ♦ Provide evidence-based individual therapy (primarily CBT) to adults and children with a diverse range of clinical presentations including: ODD, CD, ASD, ADHD, PTSD, anxiety, and depression, bipolar I and II.
- ♦ Administer full battery assessments including cognitive, psychological, and psychoeducational evaluations.

Laboratories of Cognitive Neuroscience: Boston Children's Hospital & Harvard Medical School

Staff Interventionist

July 2014-July 2016

Supervisor: Susan Faja, Ph.D.

- ♦ Provided novel computerized and behaviorally augmented individualized executive function intervention to children ages 8-13 with ASD.
- ♦ Conducted cognitive (DAS, WASI) and diagnostic (ADOS-2) assessments for clinical trial with children ages 8-13 with ASD.

Staff Diagnostician

March 2012-July 2014

Supervisor: Charles A. Nelson, Ph.D.

- ♦ Conducted cognitive/developmental (Mullen, DAS) and diagnostic (ADOS-2; AOSI) assessments for research studies and authored clinical reports for children ages 9mo-15yrs who were high risk for ASD, had TSC, RTT or other neurodevelopmental or seizure disorder.
- ♦ Developed and administered eye-tracking adapted-Mullen cognitive/developmental assessment for children with RTT (*see publication section*).

Outpatient Cardiology Unit: Department of Cardiology, Children's Hospital Boston

Intern as Clinical Assistant in the electrophysiology clinic (Supervisor: Gary Horne)

September 2010- December 2010

- ♦ Read and provided preliminary interpretations of EKG holter monitor and event monitor reports, entered reports into the computer database.
- ♦ Measured vital signs: blood pressure, oxygen saturation, height, weight, conducted EKGs.
- ♦ Assisted in conducting exercise tests and respiratory function tests

Clinical Trainings & Assessment Certifications

- Sep, 2020 Research and Clinically Reliability for the Anxiety and Related Disorders Interview Schedule, fifth Edition (ADIS), parent and child interviews
- Nov, 2019 Complex cases in child/adolescent anxiety and OCD: Addressing family factors that facilitate or inhibit treatment outcome
- Oct, 2017 Research Reliability for the Autism Diagnostic Observation Schedule, Second Edition (ADOS-2), Modules 1, 2, 3, & 4,
- Oct, 2017 ADOS-2 Introductory/Clinical Training; ADOS-2 Advanced/Research Training, Center for Autism and the Developing Brain
- Oct, 2017 Structured Clinical Interview for DSM-IV Axis I Disorders, Research Version, Patient Edition (SCID-I/P), training under the supervision of N. Vadhan, PhD, Stony Brook University
- Aug, 2017 Advanced Risk Assessment and Management, completed online certification in Counseling on Access to Lethal Means and Mandated Reporter Training and participated in advanced training in child abuse, suicidality and interpersonal violence under the supervision of D. Vivian, PhD, Stony Brook University

Trained in administering: WAIS, WISC, WIPPSI, WASI, DAS, Mullen, K-BIT, Woodcock Johnson Cognitive and Achievement Tests, Vineland-II, ESCS, ASOI, CELF, MINI, ADOS, ADIS, SCID, KSADs

Teaching Experience

Guest Lecturer Department of Psychology, Temple University, Philadelphia, PA

- ◆ Graduate Course in Professional Development in Neuroscience, Fall 2019
 - **Guest Lecture** on *Electrophysiology and Event related potentials*
- ◆ Graduate Course in Professional Development in Neuroscience, Fall 2020
 - **Guest Lecture** on *Electrophysiology and Event related potentials*

Teaching Assistant, Department of Psychology, Temple University, Philadelphia, PA

- ◆ Behavioral Neuroscience, Fall 2019
 - **Guest Lecture** on *Organization, development and function of the brain*

Teaching Assistant, Department of Psychology, Stony Brook University, Stony Brook, NY

- ◆ Developmental Psychology, Spring 2018
 - **Guest Lecture** on *Peer Relationships*

Instructor, Department of Psychology, Stony Brook University, Stony Brook, NY

- ◆ Research and Writing in Psychology, Fall 2017

Teaching Assistant, Department of Psychology, Stony Brook University, Stony Brook, NY

- ◆ Psychology of Social and Personality Development, Spring 2017

Teaching Assistant, Department of Psychology, Stony Brook University, Stony Brook, NY

- ◆ Biological Psychology, Fall 2016

Student Mentorship

Undergraduate Student Advisees

Honors Program

2019-2020 Alexandra Carpenter

Merit Fellowships

Creative Arts Research, and Scholarship (CARAS) Grants, Temple University

2020 Alisha Arora

Liberal Arts Undergraduate Research Award (LAURA), Temple University

2021 Catherine Archambault

Software Expertise

- ◆ SPSS, R-studio, Mplus, Eprime, Presentation, Netstation, BrainVision, Tobii Studio, SRLink, Matlab (basics), EEGlab, ERPLab, Biosemi, Actichamp, Actiview, AFNI/SUMA, FSL, BIDS, Redcap, python (basics), Mendeley, Prism Graphpad, tsch/bash scripting, Presentation
- ◆ Participated in monthly working group “Advanced topics in EEG signal processing” through Harvard- Boston Children’s Hospital- MIT

Volunteer Experience

Camillion Center Bangkok, Thailand, 2009

- ◆ Worked with children with HIV/AIDS and disabilities by educating them on their health and medications, basic math, English, and art therapy, and physical therapy plans. Fed, bathed, and cared for palliative care children.
- ◆ Assisted with financial planning of the NGO in order for children to attend specialized schools.

PTD, Battambang, Cambodia, 2009

- ♦ Assisted women who had been trafficked or living on the streets with socialization, rehabilitation, and skill acquisition. Facilitated safe reintegration of these women with their families or into independent lifestyles

Peer Health Exchange, 2007-2008

- ♦ Taught health curriculum to underserved communities in the Boston Metro area.

References

Dr. Johanna M. Jarcho, Johanna.jarcho@temple.edu

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Graduate Advisor

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Graduate Advisor

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Stony Brook University

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Harvard Medical School, Boston Children's Hospital

Research Coordinator in Dr. Faja's Lab

Dr. Charles A. Nelson, charles.nelson@childrens.harvard.edu

Harvard Medical School, Director of the Laboratories of Cognitive Neuroscience, Boston Children's Hospital

Research Assistant II in Dr. Nelson's Lab

Dr. Sabina Berretta, sberretta@mclean.harvard.edu

Harvard Medical School, Director of the Translational Neuroscience Laboratory, McLean Hospital

Professor for Neurobiology of Emotion and Psychiatric Illnesses

Dr. Alexandra Adams, azadams@bu.edu

Boston University, Sargent College

Professor for Cellular Biology